



US Army Corps
of Engineers

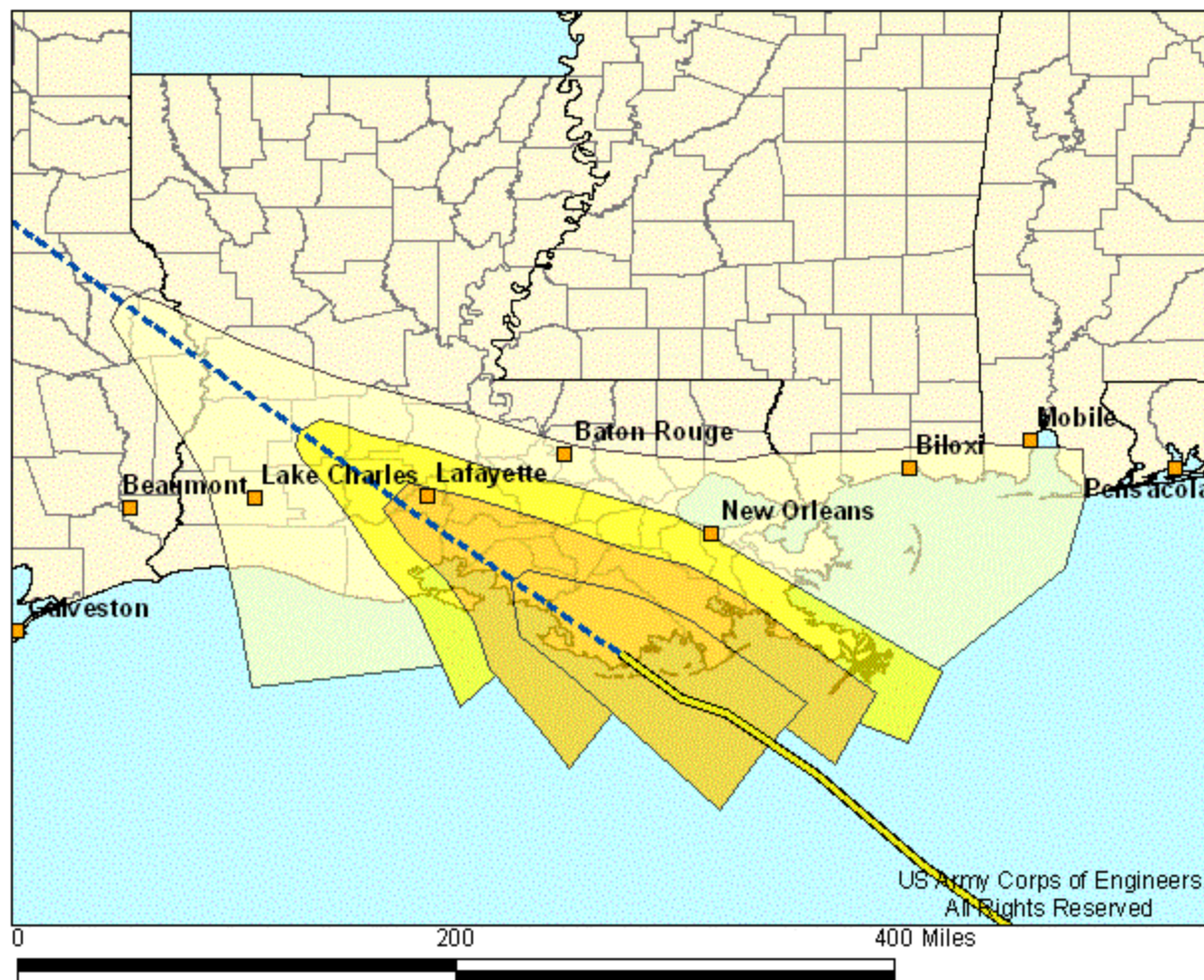
Hurricane Gustav Projected Damage Areas

Landfall Has Occurred

**For Planning
Purposes Only!**

Post Landfall Projected Damage Areas

This model is based on a
Category 2 storm making landfall
south of Houma, LA.



Forecast Track

Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Projected Damage Areas

Generated By:

Siemsen, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 1 of 20

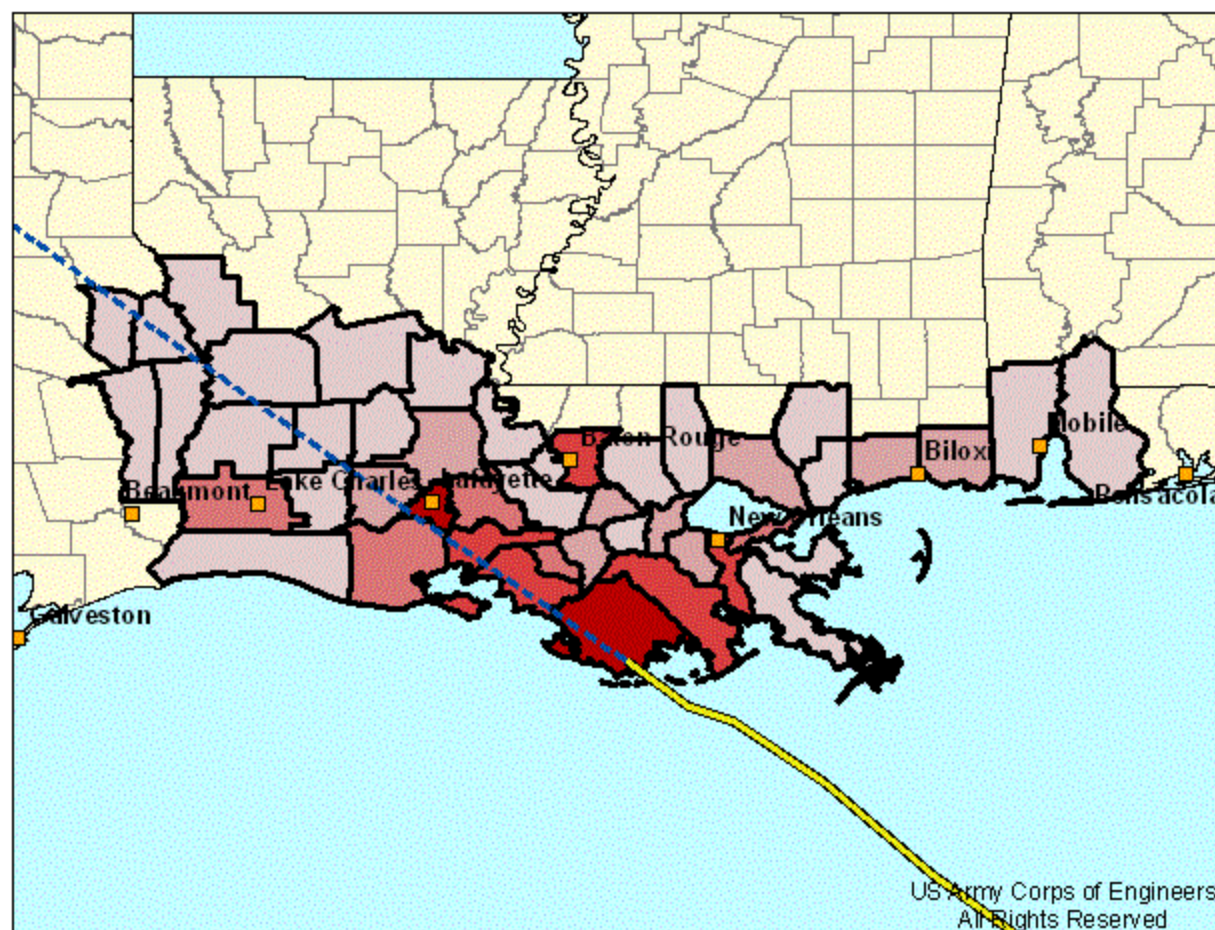


US Army Corps
of Engineers

Hurricane Gustav Debris Model

Landfall Has Occurred

**For Planning
Purposes Only!**



Post Landfall Debris Model Results

Louisiana - 10,154,000 Yards
Mississippi - 530,000 Yards
Alabama - 145,000 Yards
Texas - 49,000 Yards

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- > 1,000,000 cubic yards

US Army Corps of Engineers
All Rights Reserved

0 200 400 Miles

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

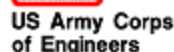
Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Debris Model

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 2 of 20



For Planning Purposes Only!

[illegible]

Source: US Army Corps of Engineers. All Rights Reserved

Page 3 of 20

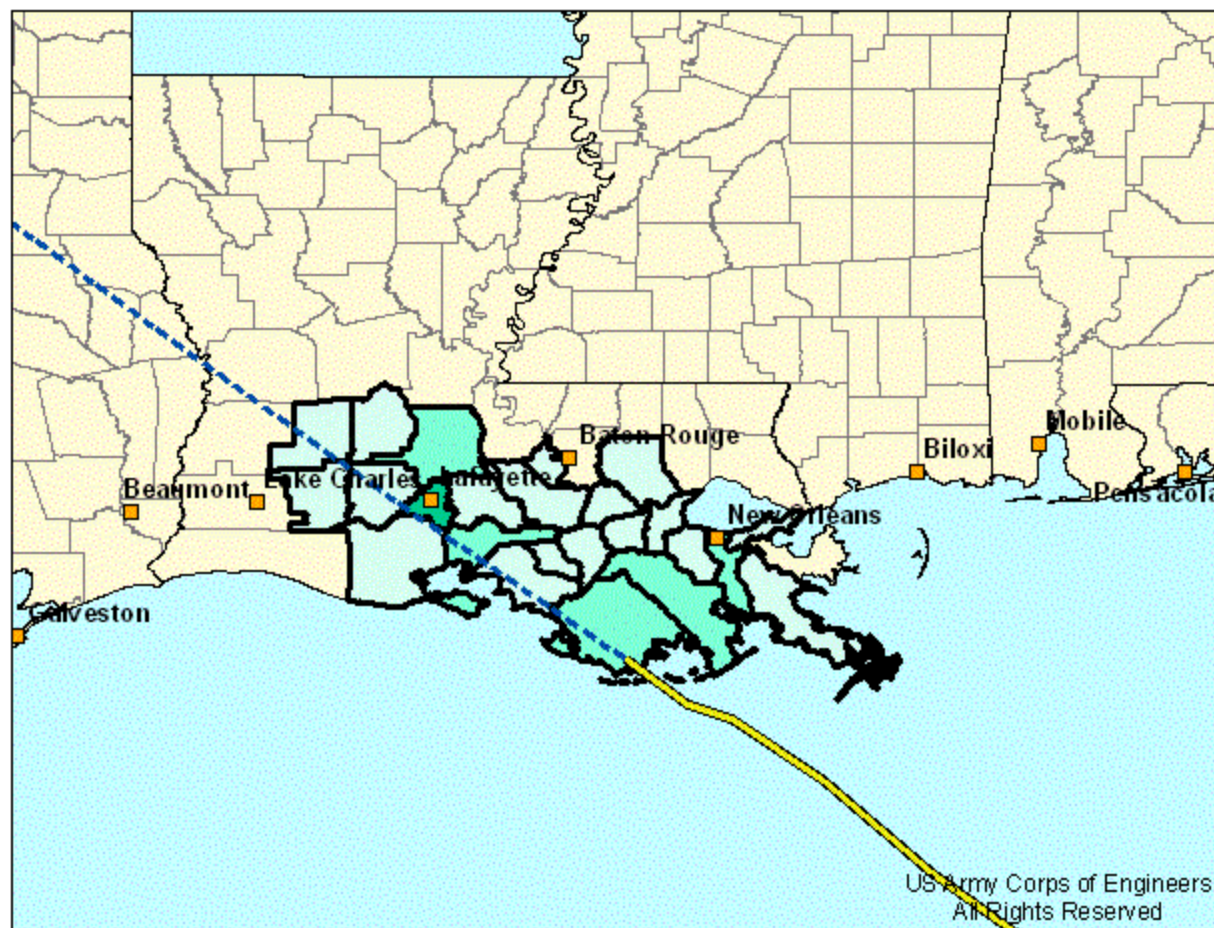


US Army Corps
of Engineers

Hurricane Gustav Commodities Model

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Post Landfall Water Model Results

Day One / Day Two / Day Three
Louisiana – 20/40/81 Truckloads

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track

Historic Track

Commodities

< 5 Trucks Each

5 - 10 Trucks Each

11 - 20 Trucks Each

21 - 40 Trucks Each

> 40 Trucks Each

US Army Corps of Engineers
All Rights Reserved

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 4 of 20



US Army Corps
of Engineers

Hurricane Gustav Commodities Model

Landfall Has Occurred

**For Planning
Purposes Only!**

State	Truckloads per State	County	Truckloads per County
Louisiana	81	Acadia	4
		Allen	1
		Ascension	3
		Assumption	2
		Evangeline	1
		Iberia	5
		Iberville	2
		Jefferson	10
		Jefferson Davis	1
		Lafayette	12
		Lafourche	6
		Livingston	1
		Orleans	1
		Plaquemines	1
		St Charles	3
		St James	2
		St John the Baptist	3
		St Landry	5
		St Martin	3
		St Mary	3
		Terrebonne	7
		Vermilion	4
		West Baton Rouge	1
Louisiana	81		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Commodities Model

Generated By:

Siemens, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 5 of 20

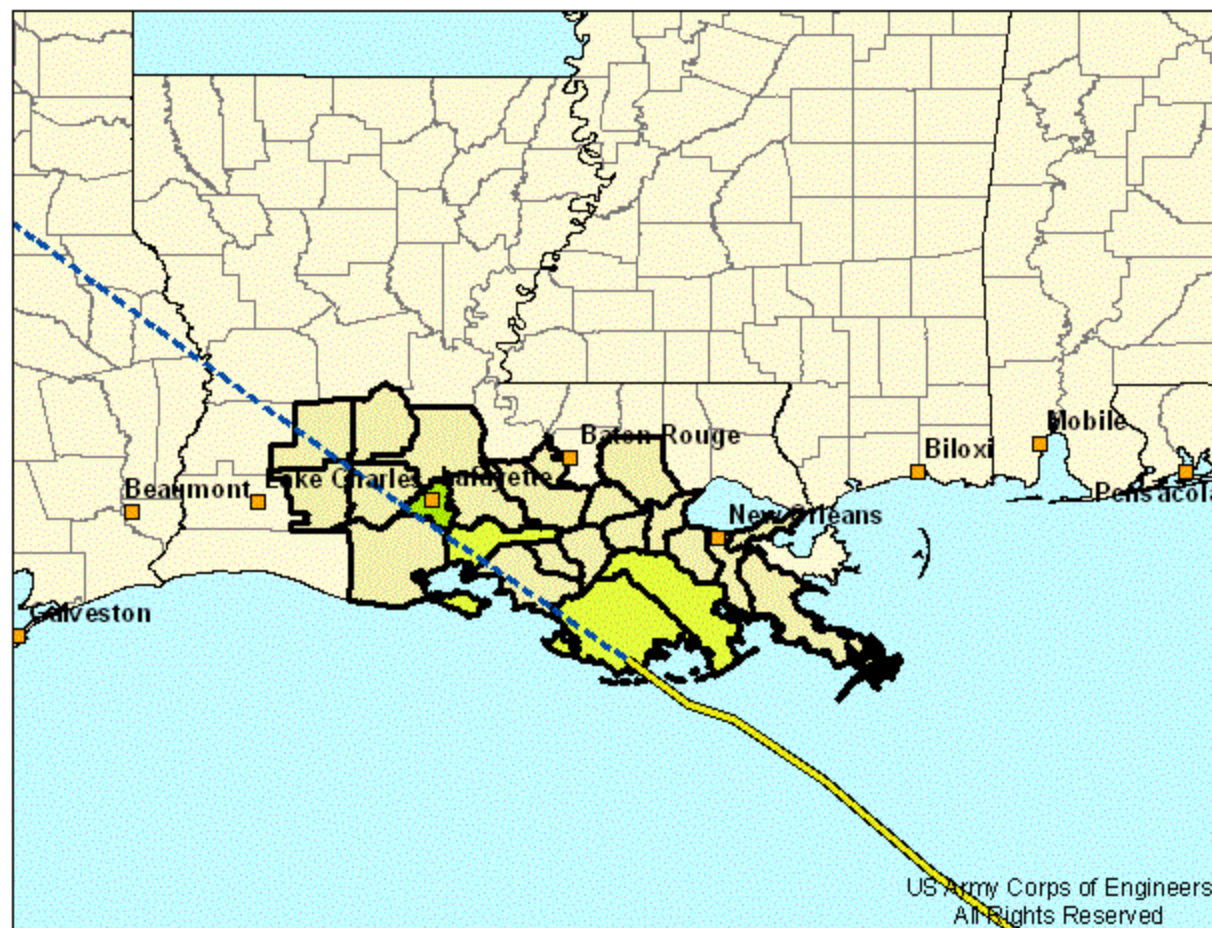


US Army Corps
of Engineers

Hurricane Gustav Temporary Roofing Model

Landfall Has Occurred

**For Planning
Purposes Only!**



Post Landfall Temporary Roofing Model Results

Louisiana - 23,600

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track

Historic Track

Temporary Roofing

< 2,000 units

2,000 - 3,999 units

4,000 - 5,999 units

6,000 - 9,999 units

> 10,000 units

US Army Corps of Engineers
All Rights Reserved

0 200 400 Miles

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. Temporary roofing is based on 3% in CAT 1 and 8% in CAT 2.

Details about this model may be obtained at <http://www.englink.usace.army.mil>
or contact Louisville District staff at DLL-CEURL-GIS@usace.army.mil

Hurricane Gustav Roofing Model

Generated By:

Siemsen, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 6 of 20



US Army Corps
of Engineers

Hurricane Gustav Temporary Roofing Model

Landfall Has Occurred

**For Planning
Purposes Only!**

State	House Units per State	County	House Units per County
Louisiana	23,600	Acadia	900
		Allen	200
		Ascension	500
		Assumption	600
		Evangeline	< 100
		Iberia	2,100
		Iberville	300
		Jefferson	1,900
		Jefferson Davis	200
		Lafayette	4,800
		Lafourche	2,700
		Livingston	< 100
		Orleans	< 100
		Plaquemines	200
		St Charles	600
		St James	300
		St John the Baptist	500
		St Landry	800
		St Martin	1,100
		St Mary	1,500
		Terrebonne	3,000
		Vermilion	1,400
		West Baton Rouge	< 100
Louisiana	23,600		

Temporary roofing is based on 3% in CAT 1 and 8% in CAT 2.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Roofing Model

Generated By:

Siemens, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 7 of 20

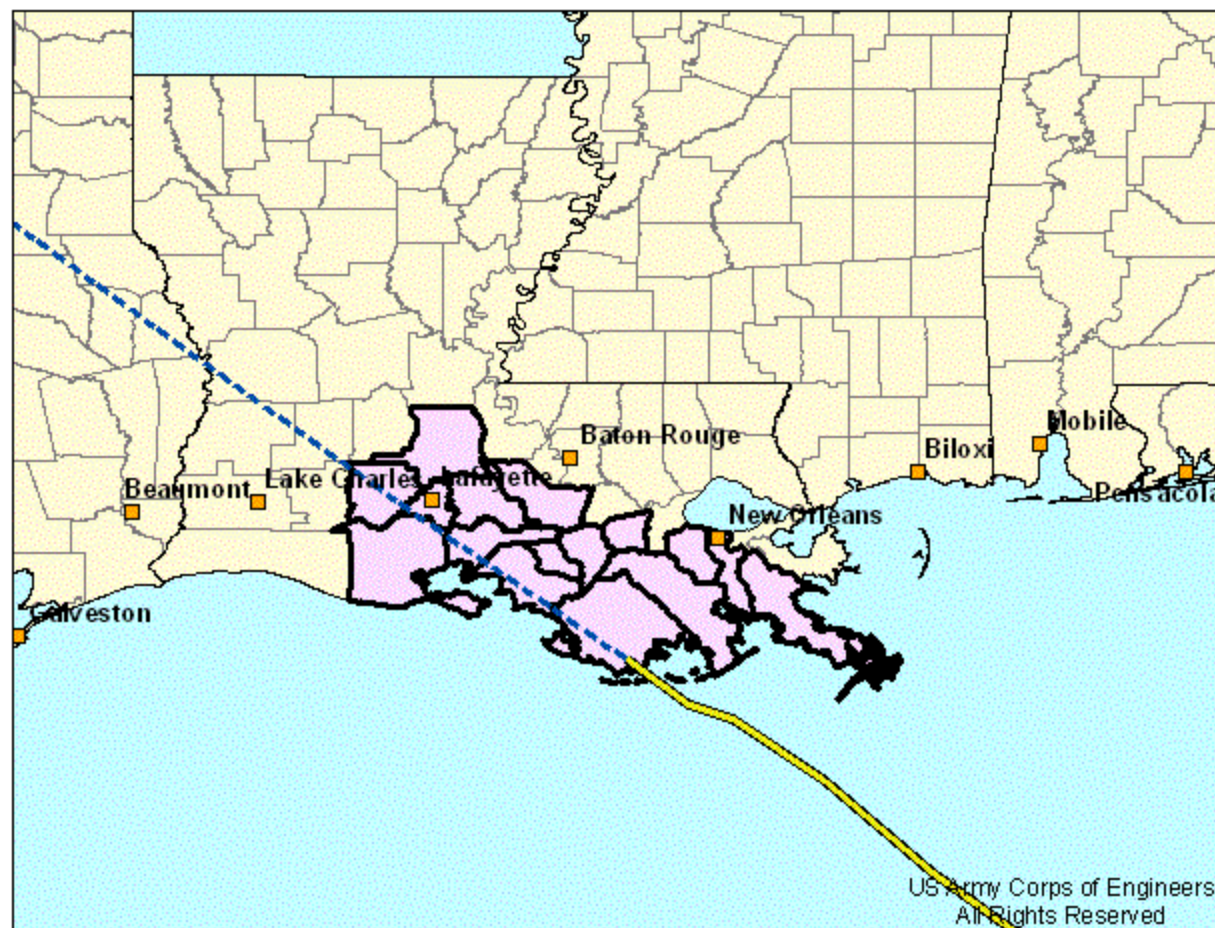


US Army Corps
of Engineers

Hurricane Gustav Temporary Housing Model

Landfall Has Occurred

**For Planning
Purposes Only!**



Post Landfall Temporary Housing Model Results

Louisiana - 2,200

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

US Army Corps of Engineers
All Rights Reserved

0 200 400 Miles

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at <http://www.englink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Housing Model

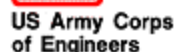
Generated By:

Siemsen, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 8 of 20



Landfall Has Occurred

For Planning Purposes Only!

[illegible]

Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at <http://www.englink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers. All Rights Reserved

Hurricane Gustav
Housing Model

Generated By:

Siemens, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 9 of 20

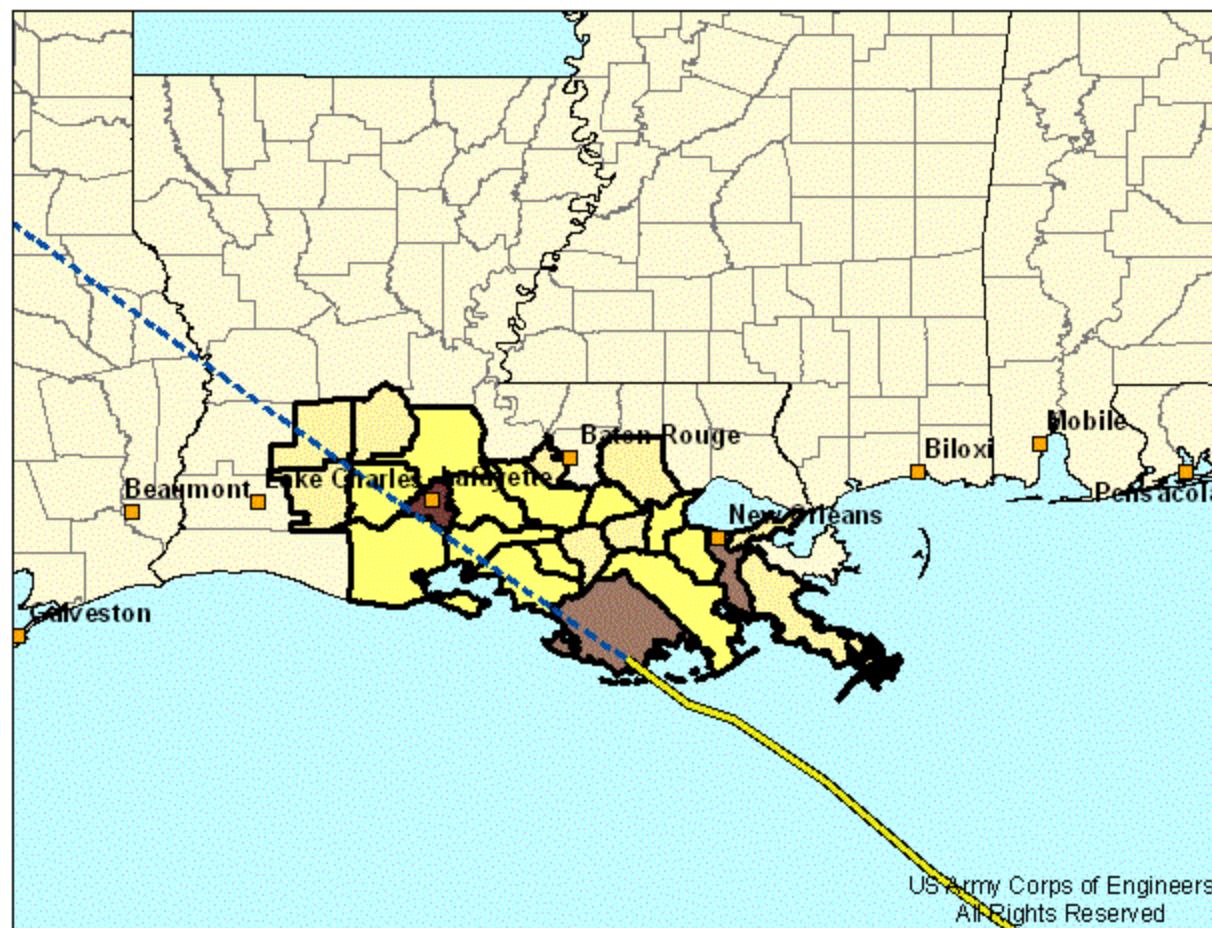


US Army Corps
of Engineers

Hurricane Gustav Population Model

Landfall Has Occurred

**For Planning
Purposes Only!**



Post Landfall Population Model Results

Louisiana - 1,214,000

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track

Historic Track

Population

< 25,000 persons

25,000 - 99,999 persons

100,000 - 174,999 persons

175,000 - 249,999 persons

> 250,000 persons

US Army Corps of Engineers
All Rights Reserved

0 200 400 Miles

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Population Model

Generated By:

Siemsen, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 10 of 20



US Army Corps
of Engineers

Hurricane Gustav Population Model

Landfall Has Occurred

**For Planning
Purposes Only!**

State	Population per State	County	Population per County
Louisiana		Acadia	60,000
		Allen	11,000
		Ascension	44,000
		Assumption	23,000
		Evangeline	10,000
		Iberia	76,000
		Iberville	29,000
		Jefferson	169,000
		Jefferson Davis	16,000
		Lafayette	205,000
		Lafourche	93,000
		Livingston	< 1,000
		Orleans	3,000
		Plaquemines	17,000
		St Charles	51,000
		St James	22,000
		St John the Baptist	46,000
		St Landry	71,000
		St Martin	52,000
		St Mary	52,000
		Terrebonne	109,000
		Vermilion	53,000
		West Baton Rouge	2,000
Louisiana	1,214,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Population Model

Generated By:

Siemens, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 11 of 20

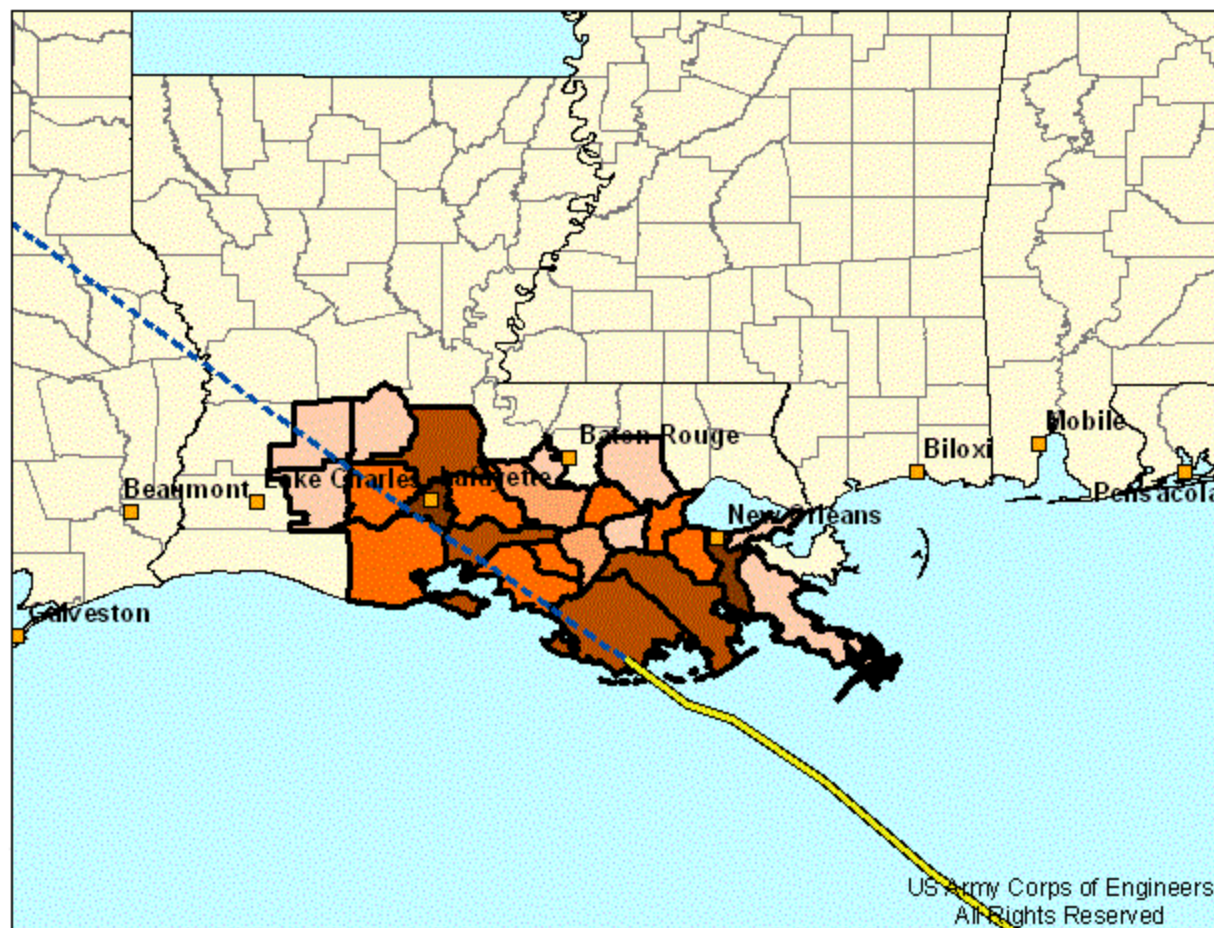


US Army Corps
of Engineers

Hurricane Gustav Households Model

Landfall Has Occurred

**For Planning
Purposes Only!**



Post Landfall Households Model Results

Louisiana - 442,000

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

Forecast Track
 Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50,000 households

US Army Corps of Engineers
All Rights Reserved

0 200 400 Miles

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Households Model

Generated By:

Siemsen, LRL 1130 EDT 09/01/2008

Sources:

HURREVAC
LRL-DEBRIS

Page 12 of 20



US Army Corps
of Engineers

Hurricane Gustav Households Model

Landfall Has Occurred

**For Planning
Purposes Only!**

State	Households per State	County	Households per County
Louisiana		Acadia	22,000
		Allen	4,000
		Ascension	16,000
		Assumption	9,000
		Evangeline	4,000
		Iberia	27,000
		Iberville	10,000
		Jefferson	60,000
		Jefferson Davis	6,000
		Lafayette	78,000
		Lafourche	34,000
		Livingston	< 1,000
		Orleans	2,000
		Plaquemines	6,000
		St Charles	18,000
		St James	8,000
		St John the Baptist	16,000
		St Landry	26,000
		St Martin	19,000
		St Mary	19,000
		Terrebonne	38,000
		Vermilion	20,000
		West Baton Rouge	< 1,000
Louisiana	442,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CE LRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Households Model

Generated By:
Siemens, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 13 of 20

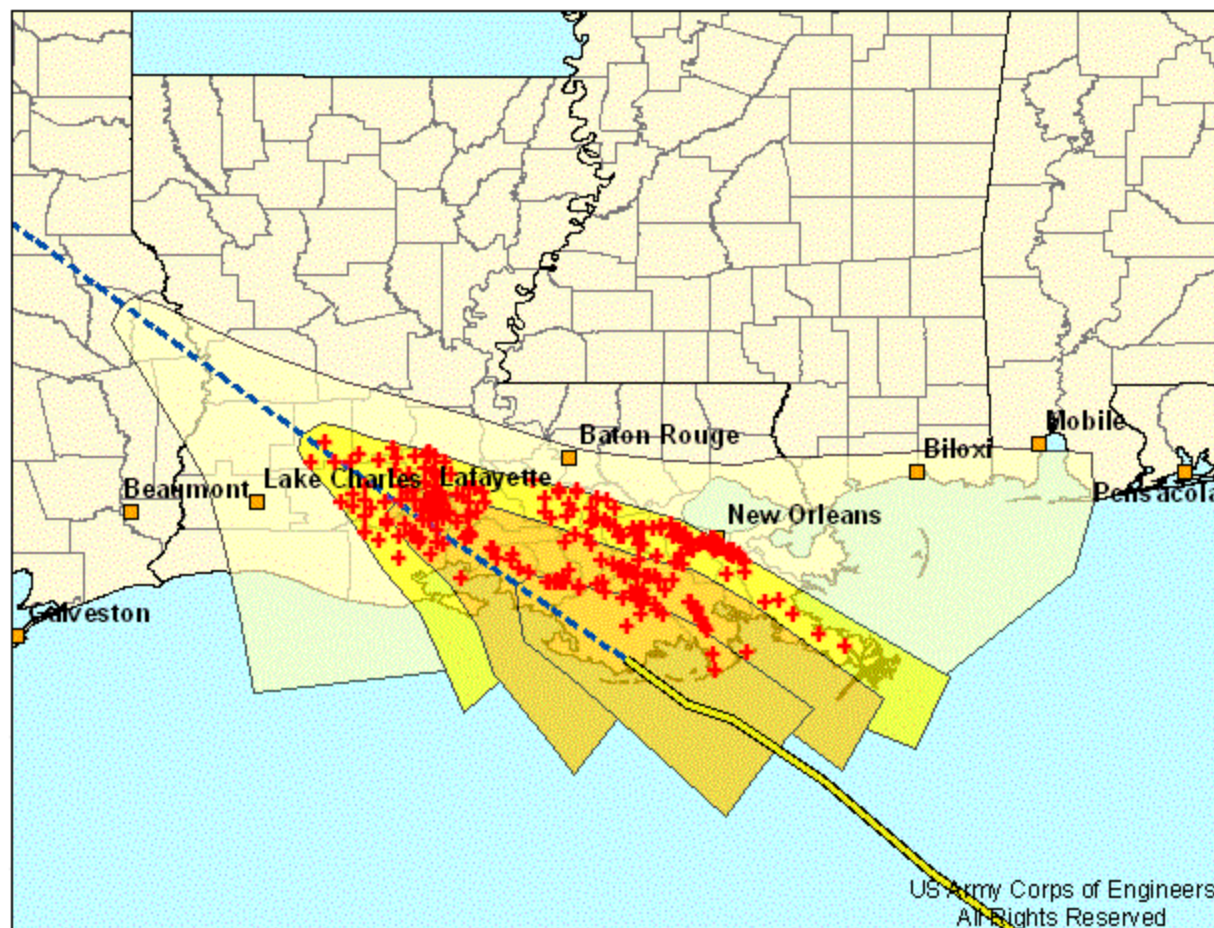


US Army Corps
of Engineers

Hurricane Gustav Fire Stations

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Louisiana - 256

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- + Fire Stations
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Fire Stations

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 14 of 20

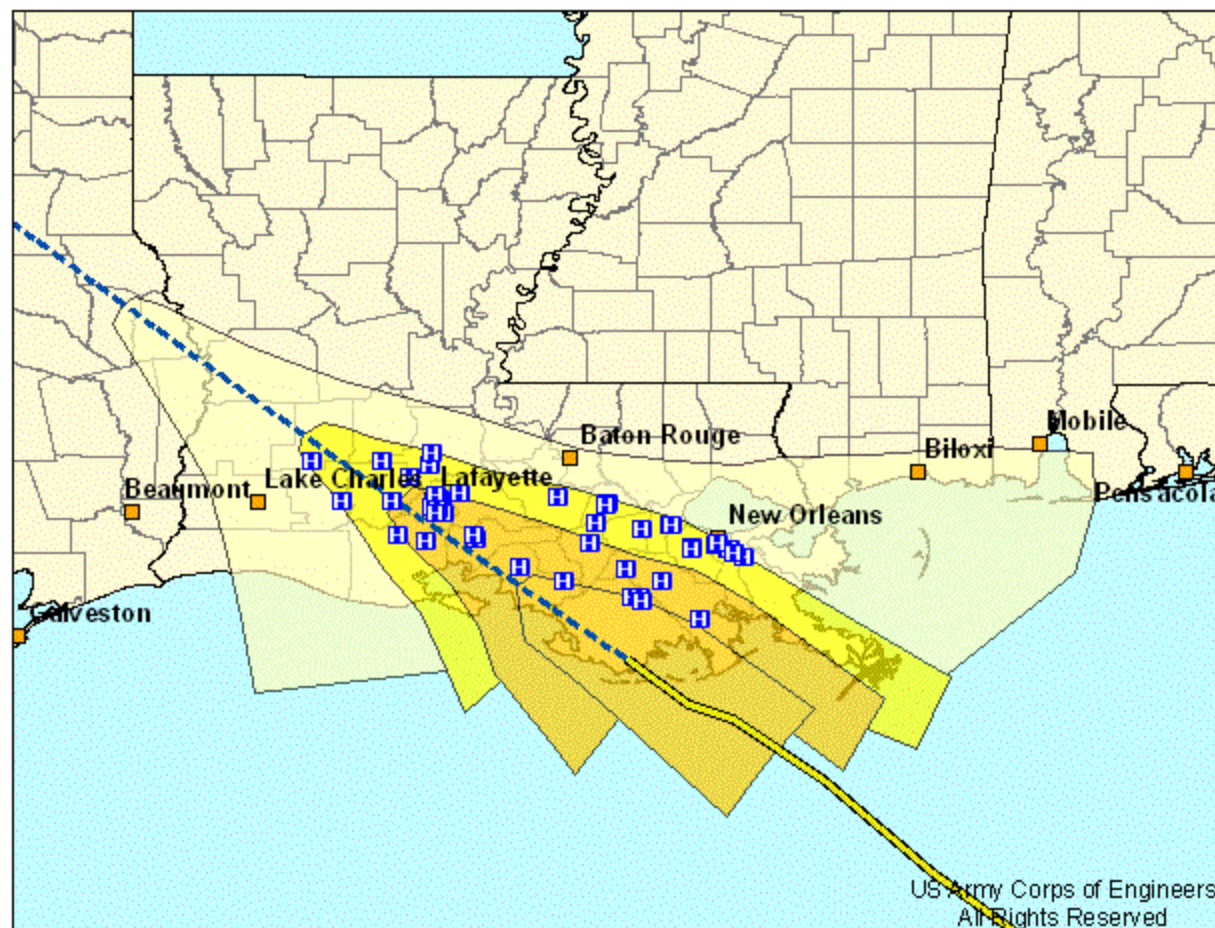


US Army Corps
of Engineers

Hurricane Gustav Hospitals

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Hospitals Inside Hurricane Force Winds

Louisiana - 49

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- Hospitals
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Hospitals

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 15 of 20

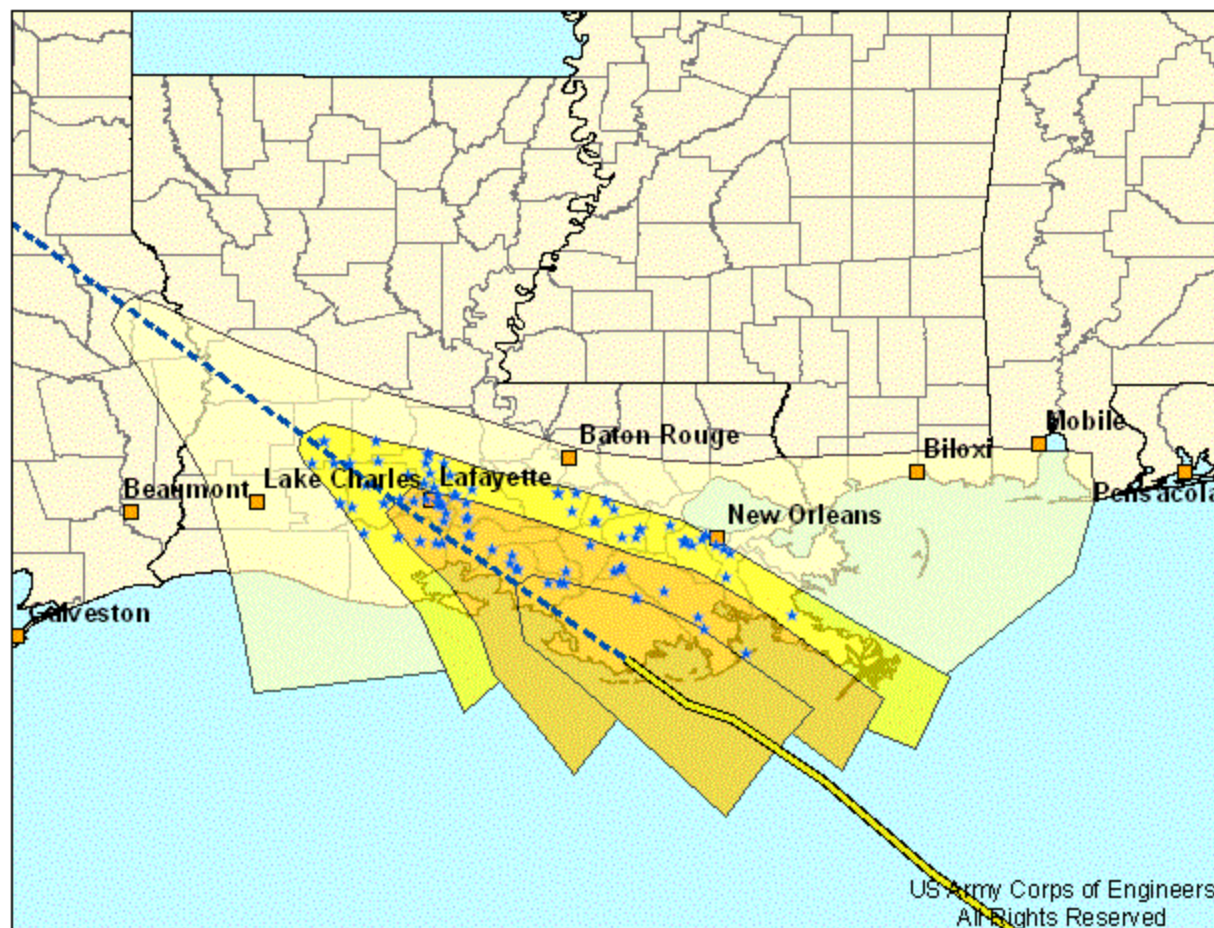


US Army Corps
of Engineers

Hurricane Gustav Law Enforcement

Landfall Has Occurred

**For Planning
Purposes Only!**



Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Louisiana - 101

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- ★ Law Enforcement
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Law Enforcement

Generated By:
Siemens, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 16 of 20

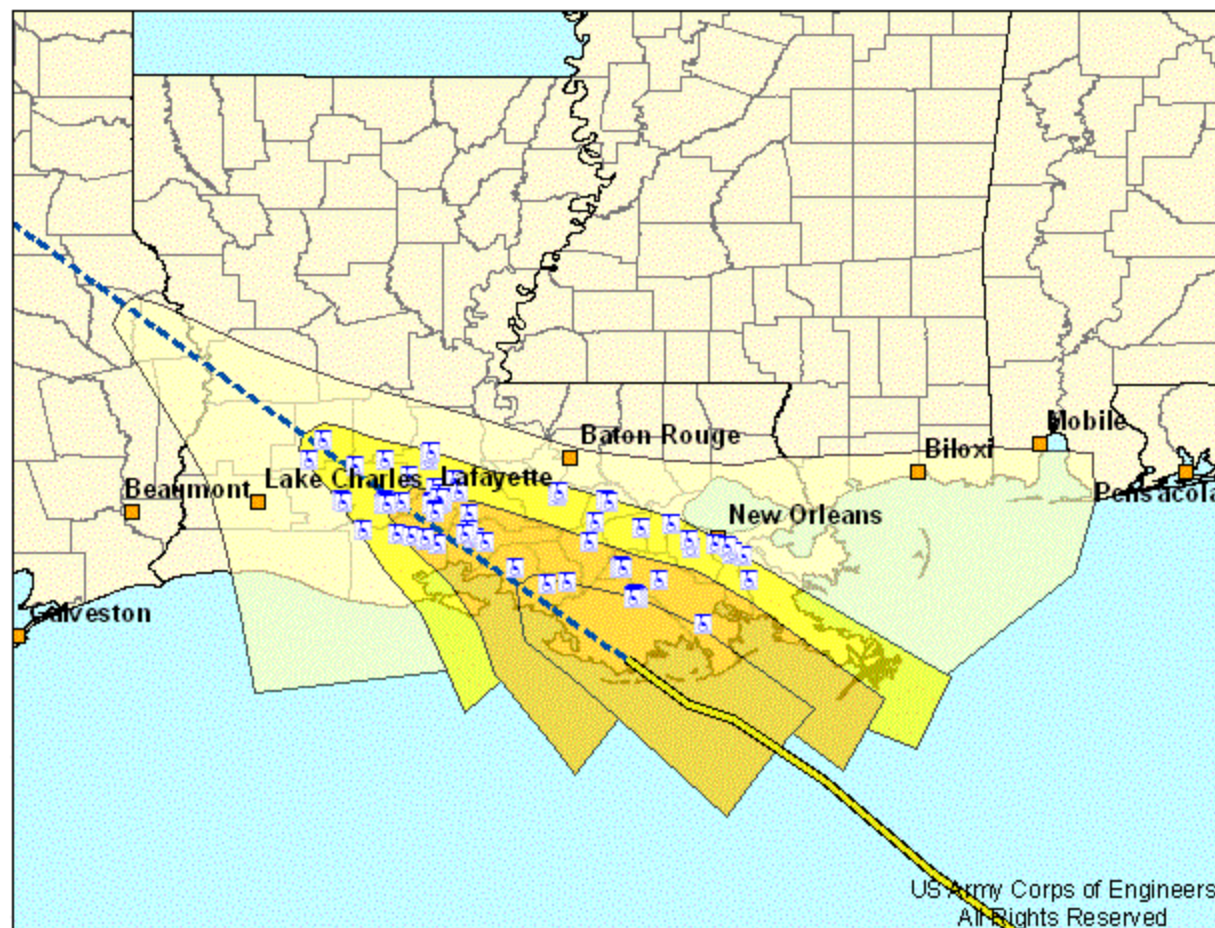


US Army Corps
of Engineers

Hurricane Gustav Nursing Homes

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Louisiana - 94

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

-  Nursing Homes
-  Forecast Track
-  Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Nursing Homes

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 17 of 20

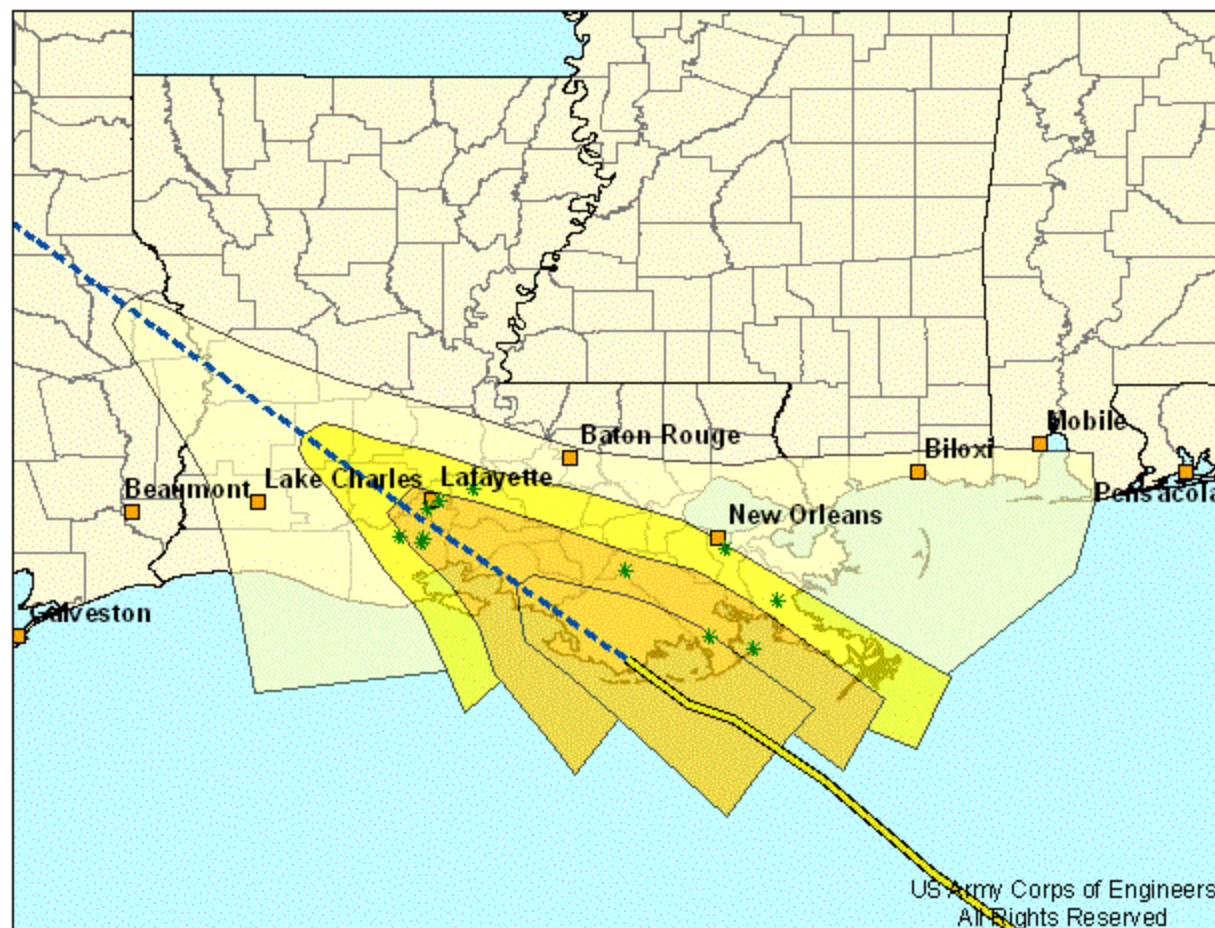


US Army Corps
of Engineers

Hurricane Gustav Potable Water

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Potable Water Inside Hurricane Force Winds

Louisiana - 11

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- * Potable Water
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of potable water included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Potable Water

Generated By:
Siemens, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 18 of 20

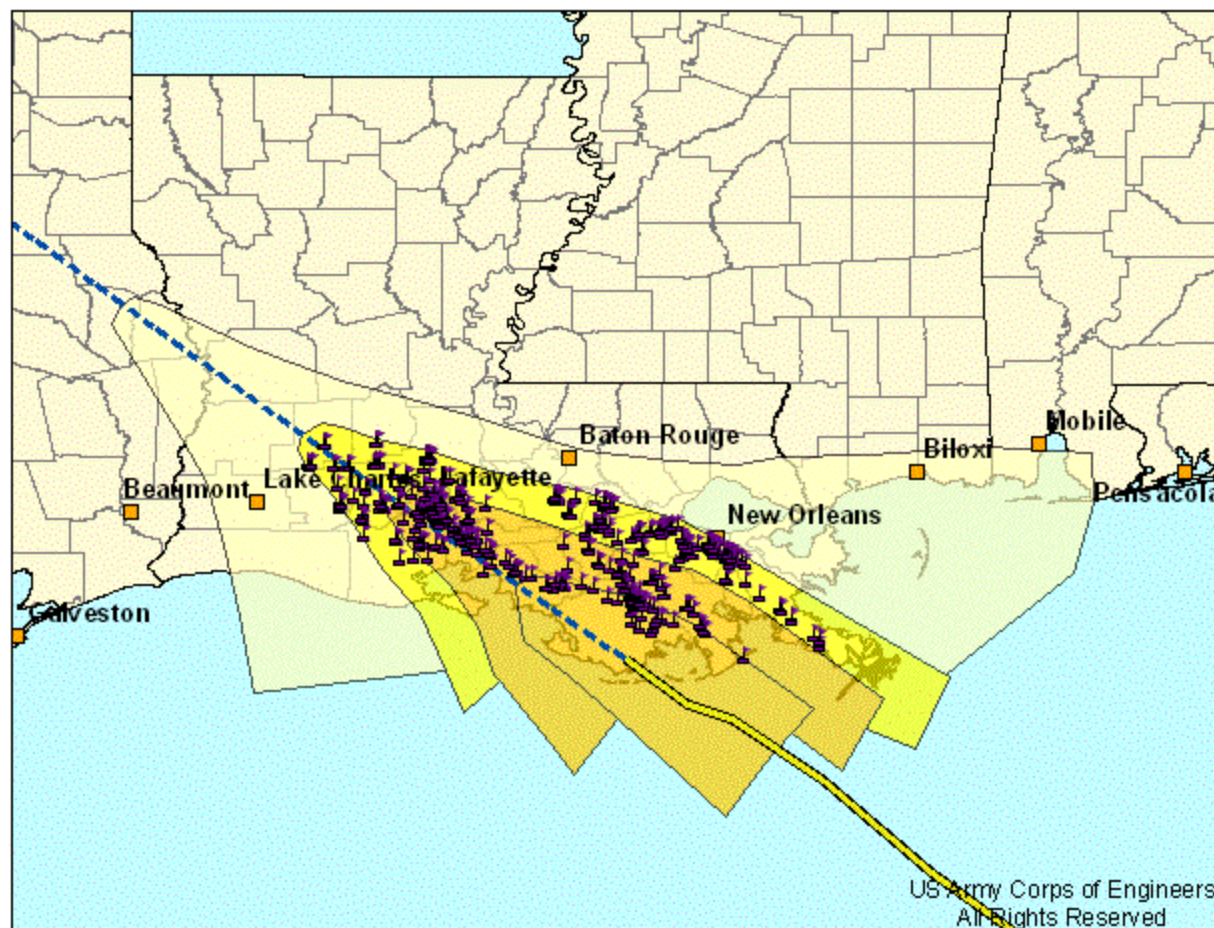


US Army Corps
of Engineers

Hurricane Gustav Schools

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Schools Inside Hurricane Force Winds

Louisiana - 562

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- Schools
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of schools included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Schools

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 19 of 20

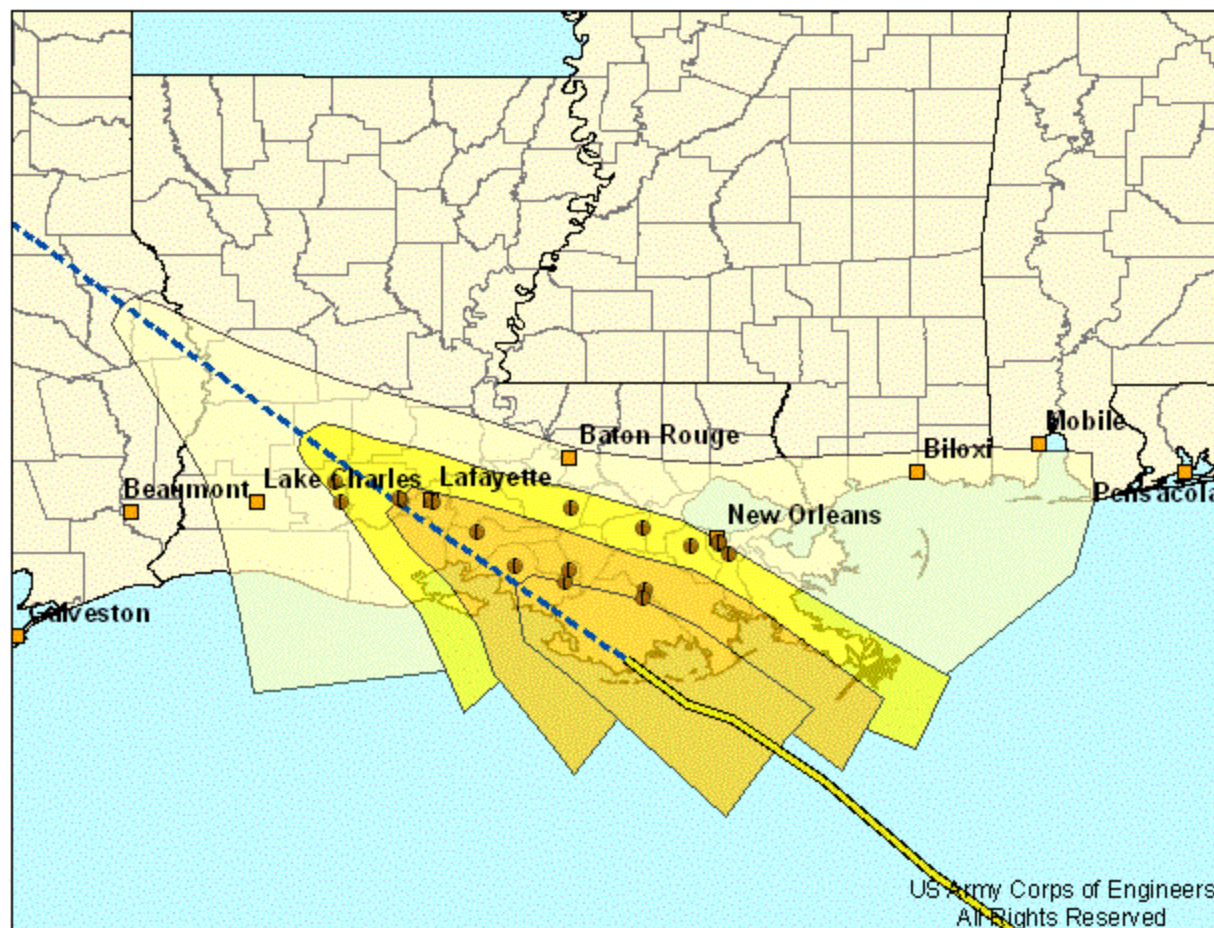


US Army Corps
of Engineers

Hurricane Gustav Sewage Treatment Plants

Landfall Has Occurred

**For Planning
Purposes Only!**



0 200 400 Miles

Most Probable Landfall Sewage Treatment Plants Inside Hurricane Force Winds

Louisiana - 18

*Model results per County on
following page*

This model is based on a
Category 2 storm making landfall
south of Houma, LA.

- Sewage Treatment Plants
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 09/01/2008) forecast.

The number of sewage treatment plants included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at <http://www.enlink.usace.army.mil>
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Sewage Treatment Plants

Generated By:
Siemsen, LRL 1130 EDT 09/01/2008

Sources:
HURREVAC
LRL-DEBRIS

Page 20 of 20